WHAT IS CLAIMED IS:

- A method for determining harmonics of repeatable runout error during disk drive operation, such that correction of the error by feed forward techniques is facilitated, comprising: using at least one algorithm to determine at least one RRO error harmonic based on a number of disk fasteners.
- 2. The method of Claim 1, further comprising using an output of the algorithm to establish a feed forward signal to a head positioning assembly to correct repeatable errors.
- 3. The method of Claim 2, wherein the algorithm is established at least in part by n+m=NS, 2NS, 3NS,..., wherein NS is the number of periodically-spaced fasteners, n is a wave number of disk deformation, and m is a harmonic number induced by the NS fasteners to cause the disk to deform with wave number equal to n.
- 4. The method of Claim 2, wherein the algorithm is established at least in part by the magnitude of |n-m| = NS, 2NS, 3NS,..., wherein NS is the number of periodically-spaced fasteners; n is a wave number of disk deformation, and m is a harmonic number induced by the NS fasteners to cause the disk to deform with wave number equal to n.
 - 5. A hard disk drive, comprising: at least one disk susceptible to RRO error; at least one error correction circuit to cancel RRO error; and at least one input representing algorithmically determined RRO error harmonics based on a number of fasteners used to hold the disk.
 - 6. The disk drive of Claim 5, wherein the screws hold the disk to a spindle.
- 7. The disk drive of Claim 5, wherein the RRO error is determined by an algorithm established at least in part by n+m=NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.

- 8. The disk drive of Claim 5, wherein the RRO error is determined by an algorithm established at least in part by the magnitude of |n-m| = NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.
 - 9. A system, comprising:

at least one disk;

an integer number of screws holding the disk to a rotating component;

at least one head positioning assembly positioning a head over a disk;

at least one error correction circuit controlling the head positioning assembly in response to an error signal; and

at least one error signal generation component generating the error signal at least in part based on the number of screws.

- 10. The system of Claim 9, wherein the error signal generation component uses at least one algorithm to generate the error signal, the error signal being an RRO error signal.
- 11. The system of Claim 10, wherein the RRO error signal is determined by an algorithm established at least in part by n+m=NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.
- 12. The system of Claim 10, wherein the RRO error signal is determined by an algorithm established at least in part by the magnitude of |n-m| = NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.
 - 13. A data storage system, comprising: means for determining harmonics of repeatable runout (RRO) error during disk drive operation to generate an error signal based on a number of disk fasteners; and means for feeding forward the error signal to cancel the RRO error.
 - 14. The system of Claim 13, wherein the means for determining at least in part uses

n+m=NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.

15. The system of Claim 13, wherein the means for determining at least in part uses the magnitude of |n-m| = NS, 2NS, 3NS,..., wherein n is a wave number, m is a harmonic number, and NS is the number of fasteners.